

# PENNSYLVANIA SEA GRANT PROGRAM 2010 NSGO REVIEW

Jon Eigen, Program Officer

CANADA

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NEW YORK

PA SG  
PENNSYLVANIA

## POPULATED PLACES

- 1,000,000 and over • Philadelphia  
 100,000 – 499,999 • Pittsburgh  
 25,000 – 99,999 • Easton  
 24,999 and less • Somerset  
 State capital ★ Harrisburg  
 Urban areas ■

## TRANSPORTATION

Interstate; limited access highway

Other principal highway

Railroad

## PHYSICAL FEATURES

Streams

Lakes

Highest elevation in state (feet) +3213

The lowest elevation in Pennsylvania is sea level (Delaware River).

NEW  
JERSEY

MILES  
 0 10 20 30 40 50 60  
 Albers equal area projection

OHIO

WEST  
VIRGINIA

MARYLAND

DE

PA

## Management Team

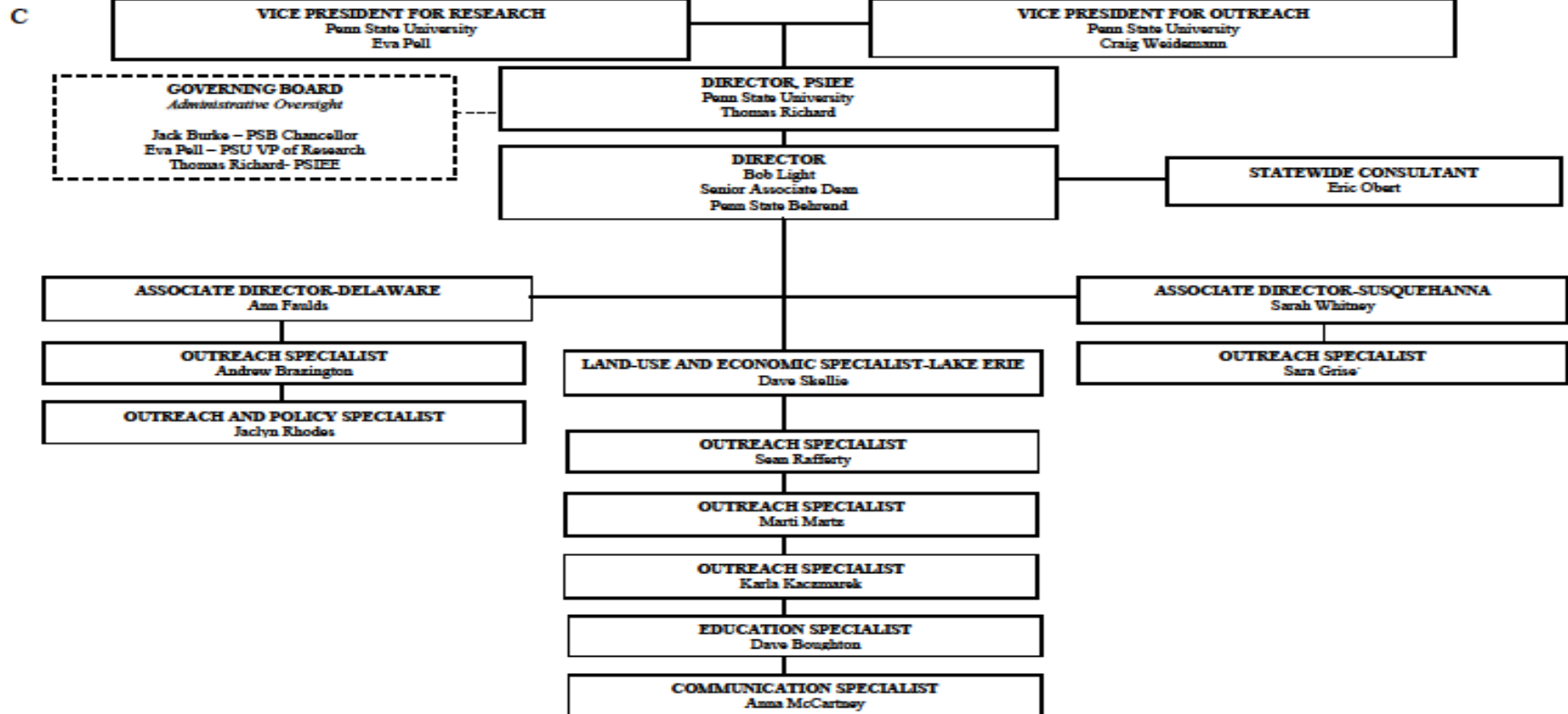
- ▣ Robert Light, Ph.D., Director (.55 FTE)
- ▣ Eric Obert, Associate Director & Extension Leader (.5 FTE)
- ▣ Ann Faulds, Associate Director Delaware River Watershed (1.0 FTE)
- ▣ Sarah Whitney, Associate Director Susquehanna River Watershed (1.0 FTE)

# Program Organizational Chart – with Extension Program

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Figure 1. PA Sea Grant Organizational Chart.



# Program Management – Advisory Board PA SG

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**Table 1: PA Sea Grant Advisory Council Membership**

<b>Lake Erie Council</b>	<b>Affiliation</b>	<b>Delaware Watershed Council</b>	<b>Affiliation</b>
Emily Beck	Erie Convention & Visitors Bureau	Jed Brown, Ph.D.	DE Estuary Fisheries Cooperative
Lori Boughton	DEP	Jason Cruz	Philadelphia Water Department
Rick Diz, Ph.D.	Gannon University	Danielle Kreeger, Ph.D.	Partnership for the DE Estuary
Michael Campbell, Ph.D.	Mercyhurst College	Christopher Linn	DE Valley Regional Planning Commission
Jeanette Schnars, Ph.D.	Regional Science Consortium	Ronald MacGillivray, Ph.D.	DE River Basin Commission
Holly Hedstrom	County Extension	Jeff Dewey	CZM
Edward Kissel	SONS of Lake Erie	Gary Stoltz	USFWS
Harry Leslie	DCNR	Marion Sumner	Heritage Conservancy
Pat Lupo, OSB	Earth Force	Steve Hughes, Ph.D.	Cheyney University
Chuck Murray	PFBC		
David Parker	Presque Isle Canoe & Boat Livery		
Jim Rutkowski	Strong Vincent High School		
Jay Schenck	PA Technical Assistance Program		

Note:

- SONS = Save Our Native Species
- USFWS = United States Fish and Wildlife Service

## **Pennsylvania Sea Grant Governing Board**

- ▣ Jack Burke, Chancellor, Penn State Behrend
- ▣ Hank Foley; Vice President for Research and Graduate Dean, Penn State University
- ▣ Thomas Richard, Director of Penn State Institute on Energy and the Environment (PSIEE)

# State Sea Grant Program Plan – Estimated 4-yr Budget Allocation by Focus Area

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National Focus Area	Focus Area from Program Strategic Plan	Estimated Level of Effort of Federal, Match and Leveraged (%)	Estimated Level of Effort of Federal and Match (\$)	Estimated Level of Effort of Leveraged (\$)
Safe & Sustainable Seafood Supply	Same	13%	\$520,000	\$130,000
Sustainable Coastal Development	Same	24%	\$960,000	\$240,000
Healthy Coastal Ecosystems	Same	49%	\$1,960,000	\$490,000
Hazard Resiliency in Coastal Communities	Same	14%	\$560,000	\$140,000
Total		100%	\$4,000,000	\$1,000,000



# Performance Measure/Outcome Highlights

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## □ SUSTAINABLE COASTAL DEVELOPMENT

- By 2013, at least one municipality within the Presque Isle Bay watershed will adopt restoration priorities developed as part of Presque Isle Bay watershed planning efforts
- By 2013, three municipalities will take steps to implement conservation design developments.

## □ HAZARD RESILIENCY

- By 2013, 40% of contractors participating in PASG coastal erosion best management practices workshops will have adopted new BMPs.

## □ HEALTHY COASTAL ECOSYSTEMS

- By 2011, the effectiveness of invasive control methods in Presque Isle State Park will be gauged.
- By 2013, 50% of marinas in Lake Erie and Delaware Estuary participate in Clean Marina activities to reduce pollution in PA.



# Major Partners

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- Pennsylvania Dept. of Environmental Protection
- Pennsylvania Dept. of Conservation and Natural Resources
- Pennsylvania Fish & Boat Commission
- Pennsylvania Coastal Resource Management Program
- Regional Science Consortium
- Lake Erie Region Conservancy
- U.S. EPA Great Lakes National Program Office
- Great Lakes and Mid-Atlantic Sea Grant Networks
- Partnership for the Delaware Estuary
- NOAA Coastal Services Center
- Philadelphia Water Department

# Network Activities - 2009

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- Dave Skellie and Sean Rafferty are members of the Great Lakes Sustainable Coastal Communities Focus Team.
- Eric Obert is a member of the Safe and Sustainable Seafood Focus Team.
- Sara Grise' is a member of the Sea Grant Climate Change Network.

## □ Description of the review process

- Due to the extension focus of the Pennsylvania program, a broad RFP was not issued for 2010. Instead, the program will fund high priority issues that support staff research and extension. In addition, staff will coordinate efforts with Penn State's Institute on Energy and the Environment and will select a high priority project to fund.
- Priorities include pharmaceuticals present in near-shore waters of Lake Erie, transport of *E. coli* to Presque Isle beaches and its relation to human health and beach closings, Presque Isle Bay AOC beneficial-use impairments, aquatic invasive species prevention and control, and impacts of the Marcellus Shale gas exploration.
- Review panels consist of advisory board members, Sea Grant colleagues from surrounding states, and selected experts primarily from Pennsylvania institutions.

# 2008/2009 Program Metrics: Awards and Honors

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- Karla Kaczmarek received the Earth Friend Award from WSEE-TV and the Lake Erie Region Conservancy in recognition of her Clean Marina program.
- Bob Light was the recipient of the inaugural John C. Oliver Environmental Leadership Award from the Friends of The Tom Ridge Center.
- Dave Skellie received the 2009 Presque Isle Audubon Society's Environmental Award.

# 2008/2009 Highlight of Metrics

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- 11 Television Appearances
- 9 Radio Interviews
- 52 Newspaper in Education full-page inserts
- 5 peer-reviewed journal articles
- 33 professional presentations

# 2008/2009 Program Impacts

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- Wetland Rapid Assessments (175 assessed)
- Promoting Conservation Design (Municipal sub-division ordinance updates)
- Helping Landowners Preserve Environmentally Sensitive Land (332 acres in 2009) - Skellie
- Four mile Creek Fish Passage (Restoring steelhead fishery)
- Raising Awareness of Pharmaceutical Waste in Pennsylvania's Waterways – Marti Martz

# 2008/2009 Research Accomplishments

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- Stream Ecology and Restoration Research (Streambank restoration of Plum Run)
- Developing Standardized Criteria for the Assessment of Fish Deformities in Great Lakes Areas of Concern.



# Best Management Practices

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- ❑ Collaboration with the Great Lakes Sea Grant Network on Great Lakes Restoration Initiative proposals.
- ❑ Great Lakes-wide avian botulism research and extension.
- ❑ Great Lakes-wide standardization of the assessment of fish tumors and other deformities within AOCs.
- ❑ NOAA B-WET watershed and airshed education collaboration in the Susquehanna River Watershed.